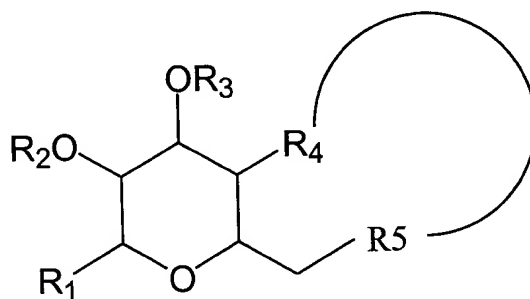


We claim:

1. A compound of the formula:



wherein

- 5 R₁ is -H, -SPh, -Ph, -PhS, -All, or -Bn;

R₂ is -H, -Et, -All, -Me, or -Bn;

R₃ is -H, -Et, -Me, -All, or -Bn; and

R₄ and R₅ form a ring and are -carbamate-C6-alkyl-ether-C4-alkenyl-ether-, -ester-C6-alkenyl-ester-, -ester-C6-alkyl-ester-, -ether-C8-alkenyl-ether-, -ester-C6-alkenyl-amide-, -ether-C7-alkenyl-amide-, -ester-C10-alkenyl-ester-, or -ester-C18-alkenyl-ester-, or -OCH(Ph)CH₂O-, or a pharmaceutically active derivative thereof.

indigolide

2. A method of treating a pathogenic bacterial, fungal, viral, or protozoal infection in a mammalian subject comprising the step of administering to the subject a composition comprising at least one compound of claim 1.

3. A method of treating a tumor in a mammalian subject comprising the step of administering to the subject a composition comprising at least one compound of claim 1.

4. The method of claim 2 wherein the composition contains a compound of claim 1 in an effective anti-bacterial, anti-fungal, anti-viral, or anti-protozoal amount.

5. The method of claim 3 wherein the composition contains a compound of claim 1 in an effective anti-tumorigenic amount.

6. The method of claim 2 wherein the mammalian subject is a human patient or another mammal.

7. A method for treating a pathogenic bacterial, fungal, viral or protozoal infection in a mammalian subject where the infective agent is resistant to one or more other therapies, comprising the step of administering to the subject a composition comprising an effective anti-bacterial, anti-fungal, anti-viral, or anti-protozoal amount of a compound of claim 1.

8. A compound as defined in claim 1, wherein R_4 and R_5 do not form a ring and are each -OH.

9. A method of treating a pathogenic bacterial, fungal, viral, or protozoal infection in a mammalian subject comprising the step of administering to the subject a composition comprising at least one compound of claim 8.

10. A method of treating a tumor in a mammalian subject comprising the step of administering to the subject a composition comprising at least one compound of claim 8.

11. The method of claim 9 wherein the composition contains a compound of claim 8 in an effective anti-bacterial, anti-fungal, anti-viral, or anti-protozoal amount.

12. The method of claim 10 wherein the composition contains a compound of claim 8 in an effective anti-tumorigenic amount.

13. The method of claim 9 wherein the mammalian subject is a human patient or another mammal.

14. A method for treating a pathogenic bacterial, fungal, viral or protozoal infection in a mammalian subject where the infective agent is resistant to one or more other therapies,

comprising the step of administering to the subject a composition comprising an effective anti-bacterial, anti-fungal, anti-viral, or anti-protozoal amount of a compound of claim 8.

20090703 08:42:53